New International Patent Application NOVOSIS AG

CLAIMS

- 1. Transdermal formulation comprising an opioid analysis from the phenanthrene group or a pharmaceutically acceptable salt thereof as active ingredient and an aloe composition as transdermal penetration agent.
- 2. Formulation according to claim 1, wherein the formulation is a patch provided with a covering layer.
- 3. Formulation according to claim 1 or 2, wherein the patch is a formulation selected from the group of matrix type patch, reservoir type patch, multi-laminate drug-in-adhesive type patch, and monolithic drug-in-adhesive type patch.
- 4. Formulation according to at least one of the preceding claims, wherein the formulation is a monolithic drug-in-adhesive type patch.
- 5. Formulation according to at least one of the preceding claims and especially claim 4, wherein the formulation comprises a backing, a pressure sensitive adhesive and a release liner.
- 6. Formulation according to at least one of the preceding claims, wherein the adhesive comprises or consists of a component selcted from the group of natural rubber; synthetic rubber; acrylic adhesive; polyvinylacetate; polydimethylsiloxane; and hydrogels, especially high molecular weight polyvinlpyrrolidone and oligomeric polyethylene oxide.

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- 7. Formulation according to claim 6, wherein the adhesive is an acrylic adhesive.
- 8. Formulation according to claim 6, wherein the rubber adhesive comprises or consists of a styrene-butadiene-styrene block copolymer or a styrene-butadiene block copolymer.
- 9. Formulation according to claim 8, wherein the acrylic adhesive comprises or consist of a polyacrylate.
- 10. Formulation according to claim 9, wherein the polyacrylate is selected from the group consisting of polybutylacrylate, polmethylacrylate and poly-2-ethylhexylacrylate.
- 11. Formulation according to at least one of claims 4 to 10, wherein the adhesive contains a crosslinker.
- 12. Formulation according to at least one of the preceding claims, wherein the analgesic is buprenorphine or a pharmaceutically acceptable salt thereof.
- 13. Formulation according to at least one of the preceding claims, wherein the analgesic is buprenorphine or a pharmaceutically acceptable salt thereof.
- 14. Formulation according to at least one of the preceding claims and especially claim 12, wherein the extracting agent of the aloe extract or the vehicle is a vegetable oil.
- 15. Formulation according to claim 14, wherein the vegetable oil is a hydrogenated oil.

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- 16. Formulation according to claim 14 or 15, wherein the vegetable oil is soybean oil.
- 17. Formulation according to at least one of the preceding claims, wherein the formulation comprises another penetration agent in addition to the aloe composition.
- 18. Formulation according to claim 17, wherein the additional penetration agent is selected from the group consisting of ethyl alcohol; isopropyl alcohol; octyl phenol; polyethylene glycol octylphenyl ether; oleic acid; poyethyline glycol (PEG), especially PEG 400; propylene glycol; N-decylmethyl sulfoxide; fatty acid esters, especially isopropyl myristate, methyl laurate, glycerol monooleate and propylene glycol monooleate; and N-methyl pyrrolidone.
- 19. Formulation according to at least one of the preceding claims, wherein the composition comprises a preservative, especially a preservative selected from the group of alcohols, quaternary amines, organic acids, parabens and phenols.
- 20. Formulation according to at least one of the preceding claims, wherein the formulation comprises a backing comprising or consisting of a material selected from the group consisting of polyolefin, polyester, polyvinylidene chloride, polyurethane, cotton or wool.
- 21. Formulation according to claim 20, wherein the backing is a polyolefine foil.
- 22. Formulation according to claim 21, wherein the foil has a thickness of 0.5 to 1.5 and especially 0.6 to 1.0 mm.